

M1 SERIES P6CU-XXXXZ 1KV ISOLATED 1W UNREGULATED DUAL OUTPUT SIP7

Available Inputs:

5, 12, 24 and 48 VDC

Available Outputs:

(+/-) 3.3, 5, 7.2, 12, 15 and 18 VDC

Other specifications please enquire.

Electrical Specifications

(Typical at + 25° C, nominal input voltage, rated output current unless otherwise specified)

Input Specifications

Voltage range +/- 10 %
Filter Capacitors

Isolation Specifications

Rated voltage 1000 VDC
Leakage current 1 mA
Resistance 10^9 Ohm
Capacitance 60 pF typ.

Output Specifications

Voltage accuracy +/- 5 %, max.
Ripple and noise (at 20 MHz BW) 75 mV p-p, max.
Short circuit protection Momentary
Line voltage regulation +/- 1,2 % / 1,0 % of V_{in}
Load voltage regulation +/- 8 %, load = 20 ~ 100 %
Temperature coefficient +/- 0,02 % / °C

General Specifications

Efficiency 70 % to 85 %
Switching frequency 125 KHz, typ.

Environmental Specifications

Operating temperature (ambient) - 40° C to + 85° C
Storage temperature - 55° C to + 125° C
Derating See graph
Humidity Up to 90 %, non condensing
Cooling Free air convection

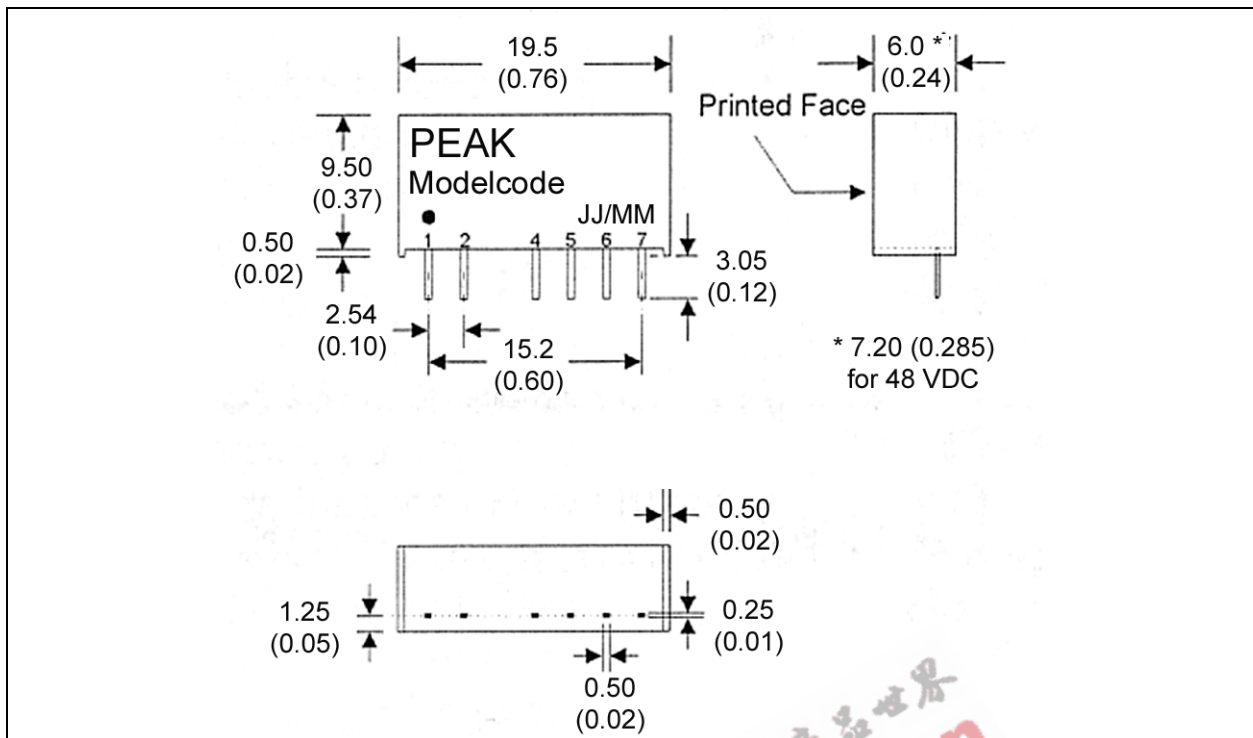
Physical Characteristics

Dimensions SIP 19,50 x 6,00 x 9,50 mm
0,76 x 0,24 x 0,37 inches
Weight 2 g, 3 g for the 48 VDC variants
Case material Non conductive black plastic

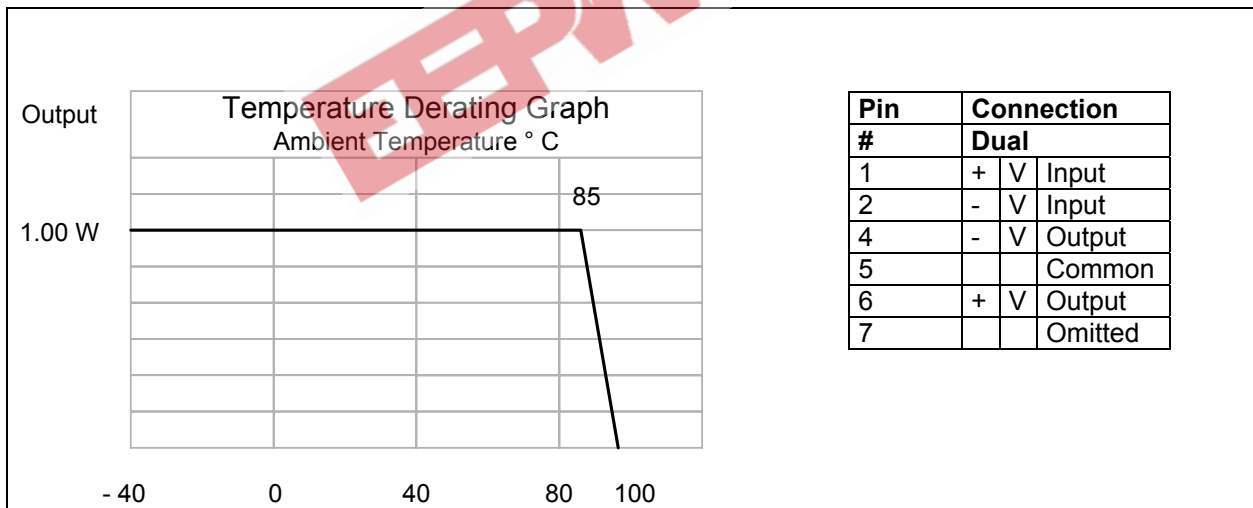
Examples of Partnumbers

PART NO.	INPUT VOLTAGE (VDC)	INPUT CURRENT NO LOAD	INPUT CURRENT FULL LOAD	OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (max. mA)	EFFICIENCY FULL LOAD (% TYP.)
P6CU-0505Z	5	16	281	+/- 5	+/- 100	71
P6CU-0512Z	5	18	253	+/- 12	+/- 42	79
P6CU-0515Z	5	20	250	+/- 15	+/- 34	80
P6CU-1205Z	12	11	119	+/- 5	+/- 100	70
P6CU-1212Z	12	10	104	+/- 12	+/- 42	80
P6CU-243R3Z	24	5	56	+/- 3,3	+/- 150	74
P6CU-2405Z	24	6	55	+/- 5	+/- 100	76
P6CU-2412Z	24	8	55	+/- 12	+/- 42	76

Dimensions



Derating Graph and Pinning



Specification can be changed without notice.

Copyright PEAK electronics GmbH